



**Missouri River Basin User Forum:
Drought Early Warning for the Lower Basin
7 Mar 2017 - 9 Mar 2017
Lied Lodge, Nebraska City, Nebraska**

Tuesday, March 7th

Drought Monitoring Tools Workshop

- 2:00pm Introduction and Concept of Tools Workshop
- 2:15pm Hands-on Tool Demonstrations
- U.S. Drought Monitor, Mark Svoboda; National Drought Mitigation Center
 - Drought Risk Atlas, Cody Knutson; National Drought Mitigation Center
 - Drought Impact Reporter, Kelly Smith; National Drought Mitigation Center
 - Applied Climate Information System; Natalie Umphlett, High Plains Regional Climate Center
 - National Weather Service (NWS) Tools and Products; Barb Mayes, NWS Omaha Weather Forecast Office
- 4:30pm Wrap-up
- 5:00pm Informal Networking Event

Wednesday, March 8th

- 8:30am Welcome and Review Previous NIDIS Kickoff Meeting: Doug Kluck, Mark Svoboda, and Chad McNutt
- 8:45am Introductions
- 9:00am Developing a Drought Early Warning Information System (DEWS) in the Missouri River Basin: A Historical Perspective; Chad McNutt, NOAA/NIDIS Program Office

- 9:15am A Baseline for the DEWS: Need and Gaps Identified from the 2014 Kickoff Meeting; Tonya Haigh and Doug Kluck
- 9:45am **Panel 1:** Lower Basin Tribal Drought Activities; Facilitators: Doug Kluck and James Rattling Leaf
- Sac and Fox Nation; Mark Junker
 - Prairie Band Potawatomi Nation; Ma’Ko’Quah Jones
 - Kansas Kickapoo Tribe; Eric Sheets
 - Iowa Tribe of Kansas and Nebraska; Alan Kelley
 - Winnebago Tribe of Nebraska; Denise Jensen
 - Santee Sioux Nation; Alisha Bartling
 - Ponca Tribe of Nebraska; Julia Sage
- 11:00am Break
- 11:15am **Panel 2:** State Drought Progress: Monitoring and Planning; Facilitator: Mark Svoboda
- Missouri; Charles DuCharme
 - Kansas; Diane Knowles
 - Iowa; Tim Hall
 - Nebraska; Mat Halbrock
 - North Platte Natural Resources Districts; Tracy Zayac
 - Wyoming Drought Impacts and Outlook; Chad McNutt
- 12:15pm Working Lunch: Drought Impact Collection: How Have Things Changed? Kelly Smith, National Drought Mitigation Center
- 1:45pm **Panel 3:** Across the Missouri River Basin Drought Activities; Facilitator: Chad McNutt
- North Central Climate Summary and Outlook Webinars; Doug Kluck
 - USACE Public Meetings/Monthly Spring Calls; Kevin Stamm
 - Wind River & SD Tribes Drought Summaries; Crystal Stiles
- 2:45pm Break
- 3:00pm **Panel 3:** Continued
- National Soil Moisture Network – Chad McNutt
 - USDA Climate Ag. Hubs; Dennis Todey
 - FEMA/Lower Basin Interagency Resiliency Group; Joe Chandler

3:30pm **Breakout 1:** Improving Communication Around Drought; Facilitators: Tonya Bernadt and Nicole Wall

5:00pm Wrap up

Thursday, March 9th

8:30am Welcome back and Recap from the first day

8:45am **Panel 4:** Drought Tools Discussion: Latest Tools for Monitoring and Anticipating Drought; Facilitator: Mark Svoboda

- Quick Drought Response Index (QuickDRI); Mark Svoboda
- Evaporative Drought Demand Index (EDDI); Mike Hobbins
- Operational Drought Monitoring in Colorado; Peter Goble

9:30am Drought Vulnerability Assessments: Who Needs Them and Why; Cody Knutson

10:00am Break

10:15am **Breakout 2:** Vulnerability Assessments; Facilitators: Tonya Bernadt and Nicole Wall

12:00pm Working Lunch: Climate Variability in the Missouri Basin Recent Findings; Doug Kluck, NOAA Regional Climate Services Director

1:30pm **Breakout 3:** Identify Gaps and Next Steps for the DEWS; Facilitators: Tonya Bernadt and Nicole Wall

3:30pm Final Thoughts and Next Steps

4:00pm Adjourn